


EVAPORATOR FOR LIQUEFIED NATURAL GAS

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PURPOSE: To efficiently evaporate the liquefied natural gas by using the intermediate thermal medium when a shell and tube type heat exchanger is used as an evaporator for liquefied natural gas.

CONSTITUTION: One side between the shell side or the tube T side of a heat exchanger 1 is filled with the intermediate thermal medium 4, and said medium is allowed to circulate in a circulation system R through an introducing part 5 and a leading-out part 6, and the heating medium 7 such as sea water is allowed to circulate in the other side through an introducing part 8 and a leading-out part 9. Further, when liquefied natural gas is introduced from the introducing part 2, the liquefied natural gas is heated with the intermediate thermal medium 4 by the heating medium 7 and introduced into a heater 13 from the introducing part 3 through a demister 12, and then gasified, to form gaseous natural gas. Said intermediate medium 4 returns into the circulation system R from the leading-out part 6 and circulates.

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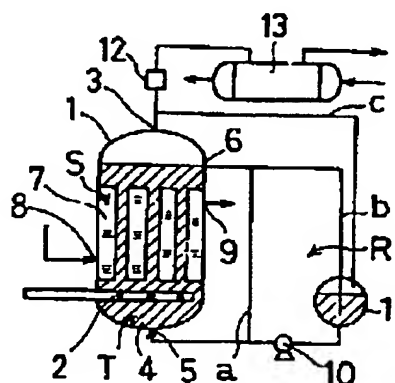
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(57) Abstract:

PURPOSE: To efficiently evaporate the liquefied natural gas by using the intermediate thermal medium when a shell and tube type heat exchanger is used as an evaporator for liquefied natural gas.

CONSTITUTION: One side between the shell side or the tube T side of a heat exchanger 1 is filled with the intermediate thermal medium 4, and said medium is allowed to circulate in a circulation system R through an introducing part 5 and a leading-out part 6, and the heating medium 7 such as sea water is allowed to circulate in the other side through an introducing part 8 and a leading-out part 9. Further, when liquefied natural gas is introduced from the introducing part 2, the liquefied natural gas is heated with the intermediate thermal medium 4 by the heating medium 7 and introduced into a heater 13 from the introducing part 3 through a demister 12, and then gasified, to form gaseous natural gas. Said intermediate medium 4 returns into the circulation system R from the leading-out part 6 and circulates.



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